

## 3X Mitutoyo Compact Objective

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3X Mitutoyo Compact Objective, #56-990

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### Product Downloads

#### General

375-033 **Model Number:**

Microscope Objective **Type:**

Finite Conjugate **Style:**

Mitutoyo **Manufacturer:**

## Physical & Mechanical Properties

Length (mm):

32.20

Length excluding Threads (mm):

32.20

Maximum Diameter (mm):

30

Weight (g):

35.00

## Optical Properties

Effective Focal Length EFL (mm):

50.59

Horizontal Field of View, 1/2" Sensor:

2.10mm

Horizontal Field of View, 2/3" Sensor:

2.90mm

Focal Length FL (mm):

50.61

Magnification:

3X

Numerical Aperture NA:

0.07

Resolving Power ( $\mu\text{m}$ ):

2.5

Depth of Field ( $\mu\text{m}$ ):

23.00

Field of View, 24 Diameter Field Eyepiece (mm):

8.0

Field of View, 18 Diameter Field Eyepiece (mm):

6.0

Working Distance (mm):

77.8

Wavelength Range (nm):

435 - 655

Field Number (mm):

24

Parfocal Length (mm):

110

Immersion Liquid:

N/A

## Sensor

Maximum Sensor Format:

2/3"

## Threading & Mounting

Mounting Threads:

M26 x 36 TPI

## Environmental & Durability Factors

Operating Temperature ( $^{\circ}\text{C}$ ):

+5 to +35

Operating Humidity:

65±20%

## Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

REACH 241:

[Compliant](#)

## Product Details

- Long Working Distances Allow for Integration into Machine Vision Measurement Systems
- Small Size with Excellent Performance
- Long Working Distances
- Easily Integrates with C-Mount Cameras

The Mitutoyo Compact Objectives are ideal replacements to commercial and biological grade microscope objectives. An optimized compromise between physical size, numerical aperture, and working distance leads to diffraction limited performance at a fraction of the size and cost of their [infinity-corrected](#) counterparts. These objectives are easily integrated into C-Mount imaging systems with our Mitutoyo C-Mount Camera Tube [#56-992](#). Higher powers are available in a larger package design, please contact our [Applications Engineering Department](#) for more information.

Edmund Optics is the main source for Mitutoyo Objectives. Place your orders now for these in demand quality products.

## Technical Information

Magnification	Working Distance	A	B	C	D	E	Stock No.
1X	73.7mm	36.3mm	5.0mm	26.0mm	25.0mm	30.0mm	<a href="#">#56-988</a>
2X	92.0mm	18.0mm	12.0mm	22.0mm	25.0mm	30.0mm	<a href="#">#56-989</a>
3X	77.8mm	32.2mm	5.0mm	26.0mm	25.0mm	30.0mm	<a href="#">#56-990</a>

